

PATENT COOPERATION TREATY

PCT

NOTICE INFORMING THE APPLICANT OF THE COMMUNICATION OF THE INTERNATIONAL APPLICATION TO THE DESIGNATED OFFICES

(PCT Rule 47.1(c), first sentence)

From the INTERNATIONAL BUREAU

To:

NAKAHAMA, Yasumitsu
c/o Intellectual Property Dept.
NKK CORPORATION
1-1, Minamiwatarida-cho
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Kanagawa 210-0855
JAPON

Date of mailing (day/month/year) 06 September 2001 (06.09.01)		IMPORTANT NOTICE	
Applicant's or agent's file reference P01004PCT			
International application No. PCT/JP01/01480	International filing date (day/month/year) 28 February 2001 (28.02.01)	Priority date (day/month/year) 01 March 2000 (01.03.00)	
Applicant NKK CORPORATION et al			

1. Notice is hereby given that the International Bureau has communicated, as provided in Article 20, the international application to the following designated Offices on the date indicated above as the date of mailing of this Notice:
US

In accordance with Rule 47.1(c), third sentence, those Offices will accept the present Notice as conclusive evidence that the communication of the international application has duly taken place on the date of mailing indicated above and no copy of the international application is required to be furnished by the applicant to the designated Office(s).

2. The following designated Offices have waived the requirement for such a communication at this time:
EP

The communication will be made to those Offices only upon their request. Furthermore, those Offices do not require the applicant to furnish a copy of the international application (Rule 49.1(a-bis)).

3. Enclosed with this Notice is a copy of the international application as published by the International Bureau on
07 September 2001 (07.09.01) under No. WO 01/64362

REMINDER REGARDING CHAPTER II (Article 31(2)(a) and Rule 54.2)

If the applicant wishes to postpone entry into the national phase until 30 months (or later in some Offices) from the priority date, a demand for international preliminary examination must be filed with the competent International Preliminary Examining Authority before the expiration of 19 months from the priority date.

It is the applicant's sole responsibility to monitor the 19-month time limit.

Note that only an applicant who is a national or resident of a PCT Contracting State which is bound by Chapter II has the right to file a demand for international preliminary examination.

REMINDER REGARDING ENTRY INTO THE NATIONAL PHASE (Article 22 or 39(1))

If the applicant wishes to proceed with the international application in the national phase, he must, within 20 months or 30 months, or later in some Offices, perform the acts referred to therein before each designated or elected Office.

For further important information on the time limits and acts to be performed for entering the national phase, see the Annex to Form PCT/IB/301 (Notification of Receipt of Record Copy) and Volume II of the PCT Applicant's Guide.

<p>The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland</p> <p>Facsimile No. (41-22) 740.14.35</p>	<p>Authorized officer J. Zahra</p> <p>Telephone No. (41-22) 338.83.38</p>
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(19) 世界知的所有権機関
国際事務局



(43) 国際公開日
2001年9月7日 (07.09.2001)

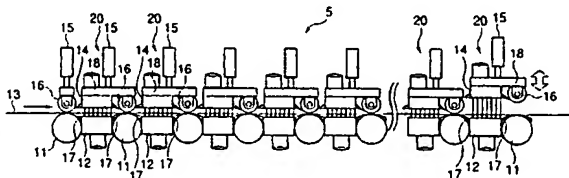
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- (74) 代理人: 弁理士 中浜泰光 (NAKAHAMA, Yasumitsu); 〒210-0855 神奈川県川崎市川崎区南渡田町1番1号 日本鋼管株式会社 知的財産部内 Kanagawa (JP).
- (30) 優先権データ:
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- (71) 出願人 (米国を除く全ての指定国について): 日本鋼管株式会社 (NKK CORPORATION) [JP/JP]; 〒100-0005 東京都千代田区丸の内一丁目1番2号 Tokyo (JP).
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- (72) 発明者: および
- (75) 発明者/出願人 (米国についてのみ): 藤林晃夫
- 2文字コード及び他の略語については、定期発行される各PCTガゼットの巻頭に掲載されている「コードと略語のガイダンスノート」を参照。

(54) Title: DEVICE AND METHOD FOR COOLING HOT ROLLED STEEL BAND AND METHOD OF MANUFACTURING THE HOT ROLLED STEEL BAND

(54) 発明の名称: 熱延鋼帯の冷却装置と冷却方法および熱延鋼帯の製造方法



a center part where cooling water flows coming from the upper and lower parts merge with each other, installing dewatering rolls (16) having the same peripheral velocity as the transfer rolls at least on an outlet side movably in vertical directions, lowering, while rotating, the dewatering rolls at the same time when the tip of the steel band passes the cooling device and, at the same time, lowering also the upper surface cooling boxes so as to cool the steel band.

(57) Abstract: A method of cooling a hot rolled steel band, comprising the steps of installing lower surface cooling boxes (12) on a runout (3) allowing a steel band to be transferred between transfer rolls (11), installing upper surface cooling boxes (14) capable of being moved up and down from a line at the positions opposed to the lower surface cooling boxes, spraying cooling water against the steel band symmetrically in vertical direction, allowing the steel band to pass generally